

WHAT IS CLAIMED IS:

1. A fold-down work surface comprising:

5 a planar top frame having first and second opposite ends and mounted thereto at least one parallelogram frame, said at least one parallelogram frame mounted to corresponding slides, said top frame forming an upper longitudinal element in said at least one parallelogram frame,

10 each parallelogram frame of said at least one parallelogram frame lying in a corresponding vertical plane, and including a lower longitudinal element, parallel to the said frame, extending between said corresponding slides at a first end of said lower longitudinal element and at least one leg at an opposite second end of said lower longitudinal element, each said corresponding slide and each leg of said at least one  
15 leg, at the corresponding said second end of said lower longitudinal element, pivotally mounted to said first and second ends of said top frame and to the opposite first and second ends of said lower longitudinal element so that said top frame, said lower longitudinal element, said slide, and said leg for each parallelogram frame form a frame pivotable in said corresponding vertical plane,

20 wherein each said slide is slidably mounted in a vertical track which is mountable to a vertical rigid supporting surface having a constraining upper edge,

wherein at least one primary brace member is pivotally mountable, by mounting  
25 means, at a lower end thereof to the supporting surface, and an opposite upper end of each primary brace member of said at least one primary brace member is pivotally mounted to said top frame adjacent said first end of said top frame so that said upper end of said each primary brace member is pivotally mounted to, so as to be disposed

between, said top frame and said mounting means when mounted adjacent said vertical track on said supporting surface,

5 wherein, as said top frame is raised or lowered relative to the supporting surface, when said vertical track and primary brace member are mounted to the supporting surface, translation of said first end of said top frame is constrained by rotation of said top frame about said upper end of said each primary brace member and by vertical sliding translation of said each slide in its corresponding said vertical track so that, as said second end of said top frame is raised in an arc so that the second end is brought into  
10 adjacency with the constraining upper edge of the supporting surface as said top frame is brought flush with the supporting surface, said first end of said top frame is lowered into adjacency with the bottom of the supporting surface.

2. The fold-down work surface of claim 1 wherein when said top frame is in a fully  
15 deployed position, the top frame is horizontal, perpendicular from the supporting surface, said leg is vertical, and a lower end of each said leg is in contact with a floor surface.

3. The fold-down work surface of claim 2 wherein, as said top frame is rotated so as to  
20 raise or lower said second end of said top frame, said each said leg remains vertical, parallel to said slide.

4. The fold-down work surface of claim 3 wherein a container is mounted to said each  
25 said leg so as to remain in a constant orientation relative to the supporting surface as said top frame is rotated to raise or lower said second end of said top frame.

5. The fold-down work surface of claim 3 wherein a rigid work surface extension is mounted to said each said leg so as to protrude outwardly of said top frame, and generally co-planar therewith when said top frame is in said deployed position, and so

as to remain level as said top frame is rotated to raise or lower said second end of said top frame whereby, once raised, said extension is stored out of the way adjacent the top edge of the supporting surface.

- 5     6.     The fold-down work surface of claim 1 wherein a tool support frame is mounted in said top frame for mounting of a tool into said top frame.
7.     The fold-down work surface of claim 6 wherein said tool is a power saw.
- 10    8.     The fold-down work surface of claim 1 further comprising a housing mountable to the supporting surface and around said top frame when raised flush against the supporting surface in a stored position for enclosing said top frame, said each parallelogram frame, said lower longitudinal element, said primary brace member, said slide and said track within said housing, whereby only said housing is visible to an observer when said top frame is in said stored position.
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9.     The fold-down work surface of claim 1 further comprising latch means for releasably latching said top frame flush against the supporting surface when said top frame is raised flush against the supporting surface in a stored position.
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10.    The fold-down work surface of claim 5 wherein said extension is braced by secondary brace members mounted between said extension and said each said leg.
11.    The fold-down work surface of claim 10 wherein said each said leg is a spaced apart pair of parallel generally linear legs mounted at and to said second end of said support frame.
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12. The fold-down work surface of claim 1 wherein said primary brace member includes a pair of rigid linear braces, each having a corresponding said slide in a corresponding said track mountable to the support surface.
- 5 13. The fold-down work surface of claim 12 wherein said pair of braces are spaced apart and parallel, and said corresponding said tracks are also correspondingly spaced apart and parallel.
- 10 14. The fold-down work surface of claim 1 further comprising a rigid table top mounted onto said top frame.
- 15 15. The fold-down work surface of claim 5 further comprising a rigid table top mounted onto said top frame and a rigid table top extension mounted onto said work surface extension.
- 20 16. The fold-down work surface of claim 1 further comprising resilient means mounted in cooperation between said slide and said track so as to resiliently resist rotation of said top frame from a stored position raised flush against the supporting surface to said deployed position, and to resiliently urge said top frame from said deployed position into said stored position, whereby a manual force exerted upwardly at said second end of said top frame is sufficient to raise and smoothly lower said top frame.